



HD95-MVS-LD

10-INCH STABILIZED EO/MWIR/SWIR GIMBAL WITH LASER TARGET DESIGNATOR

-  **LASER TARGET DESIGNATOR**
50mJ STANAG compliant coded laser
-  **DIRECT DRIVE ARCHITECTURE**
Best-in-class robustness and stability
-  **EMBEDDED VIDEO PROCESSING**
Electronic stabilization, target tracking, and MTI
-  **ONBOARD GPS/INS**
Accurate real-time vehicle and target location
-  **VISIBLE AND THERMAL CAMERAS**
Day and night operations in a single payload
-  **720P HD DIGITAL VIDEO**
Fully digital, h.264/h.265-compliant video pipeline
-  **ENVIRONMENTALLY SEALED**
Designed to IP65
-  **NVG-COMPATIBLE LASER POINTER**
830nm laser for precise and discreet pointing
-  **ETHERNET INTERFACE**
Video and gimbal control over ethernet or RS-232
-  **EYE SAFE LASER RANGEFINDER**
Accurate Range-to-Target up to 4.5km to NATO STD Target

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SOFTWARE

FEATURES

- Onboard h.264/h.265 compression with adjustable bitrate and framerate
- Dynamic or static IP addressing
- Field upgradable software
- Onboard electronic stabilization
- Onboard scene and target tracking
- Onboard moving target indicator
- MISB-compliant output including embedded KLV metadata

GPS/INS

- IMU co-located with cameras
- 0.5° (typical) total system accuracy
- Real time geointing and geolocation
- Attitude, velocity and position computed at 200Hz
- Onboard GPS receiver
- GPS and heading accepted over serial or Ethernet
- Dual GPS heading support

ELECTRICAL

- Control over Ethernet or serial
- 35W average, 75W average when laser firing, 125W peak power
- 10V to 30V input voltage
- Interface connector: 51 pin micro-D connector conforming to MIL-DTL-83513
- GPS connector: SMA
- GPS antenna: 3.3V active, L1/L2 band

CAMERAS

- 720p global shutter visible camera with 38.9°–1.5° optical zoom
- Cooled MWIR with 30-600mm lens and 18.2°–0.9° optical zoom
- SWIR camera for LTD See Spot and 5.7deg FOV

LASERS

LASER TARGET DESIGNATOR

- 50mJ/pulse power
- 400μRAD divergence
- Supports PRF codes
- STANAG 3733 compliant
- Class IV, 1064nm laser

LASER RANGE FINDER

- 1550nm laser
- Class I, eye safe
- 4.5km max range

LASER POINTER

- 830nm laser
- Class IIIB
- 1μRAD divergence
- 190mW optical power

MECHANICAL

SPECS

- Weight: 7.6kg
- Glass and Silicon windows
- Direct drive brushless motors
- 0.02° encoder resolution
- 60Hz closed loop stabilization bandwidth
- 25μRAD - 75μRAD RMS jitter



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